

FORM PTO-1390  
(REV. 10-2003)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER  
9907-007

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371**

U.S. APPLICATION NO. (If known, see 37 CFR 1.5

Not Yet Known **10/500494**

INTERNATIONAL APPLICATION NO.  
PCT/KR02/02468

INTERNATIONAL FILING DATE  
28 December 2002

PRIORITY DATE CLAIMED  
28 December 2001

**TITLE OF INVENTION**

**METHOD OF FORMING COPPER INTERCONNECTIONS FOR SEMICONDUCTOR INTEGRATED CIRCUITS ON A SUBSTRATE**

**APPLICANT(S) FOR DO/EO/US**

**Hyung-Sang PARK and Sang-Won KANG**

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☒ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☒ is attached hereto. **Filed in English.**
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). **(Unsigned)**
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

**Items 11 to 20 below concern document(s) or information included:**

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☐ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☒ A power of attorney and/or change of address letter. **(Unsigned)**
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information: **Transmittal Letter, form OCT/IB/308, WIPO Publication WO 03/056612 A1, form PTO2038, and return post card.**

U.S. APPLICANT NO. (if known, see 42 CFR 1.2)  
 10/500494  
 Not Yet Known

INTERNATIONAL APPLICATION NO.  
PCT/KR02/02468

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9907-007

21. ☒ The following fees are submitted:

### CALCULATIONS PTO USE ONLY

**BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)):**

Neither international preliminary examination fee (37 CFR 1.482)  
nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO  
and International Search Report not prepared by the EPO or JPO. .... **\$1080.00**

International preliminary examination fee (37 CFR 1.482) not paid to  
USPTO but International Search Report prepared by the EPO or JPO ..... **\$920.00**

International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO .....	<b>\$770.00</b>
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International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) . . . . .	<b>\$730.00</b>
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International preliminary examination fee (37 CFR 1.482) paid to USPTO  
and all claims satisfied provisions of PCT Article 33(1)-(4) ..... **\$100.00**

**ENTER APPROPRIATE BASIC FEE AMOUNT =**

\$1080.00.

Surcharge of **\$130.00** for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).

\$ 130.00

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	20 - 20 =		x <b>\$18.00</b>
Independent claims	2 - 3 =		x <b>\$86.00</b>
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ <b>\$290.00</b>

\$1210.00
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**TOTAL OF ABOVE CALCULATIONS =**

☒ Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.

**\$ 605.00**

**SUBTOTAL =**

**\$ 605.00**

Processing fee of **\$130.00** for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).

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**TOTAL NATIONAL FEE =**

\$ 605.00

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). **\$40.00** per property +

**\$**

**TOTAL FEES ENCLOSED =**

\$ 605.00

**Amount to be refunded:**

§

**charged:**

§

- a. ☐ A check in the amount of \$ \_\_\_\_\_ to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 13-1703. A duplicate copy of this sheet is enclosed.
- d. ☒ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

**NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.**

**SEND ALL CORRESPONDENCE TO:**

Hosoon Lee  
MARGER JOHNSON & MCCOLLOM PC  
1030 SW Morrison Street  
Portland, OR 97205

Todd Lewis  
SIGNATURE

**SIGNATURE**

Todd J. Iverson

NAME \_\_\_\_\_

53,057

REGISTRATION NUMBER

EXPRESS MAIL                      MAILING LABEL NO. EL 982134289 US  
DATE OF DEPOSIT: JUNE 28, 2004

I HEREBY CERTIFY THAT THIS PAPER AND ENCLOSURES AND/OR FEE ARE BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE "EXPRESS MAIL POST OFFICE TO ADDRESSEE" SERVICE UNDER 37 CFR 1.10 ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO: MAIL STOP PCT, COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 20231.

HILLARY DIXON  
(SENDER'S PRINTED NAME)

  
(SIGNATURE)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
U.S. RECEIVING OFFICE (RO/US)

In Re:                      International Application  
                                No. PCT/KR02/02468

Filed:                      28 December 2002

Applicant:                Hyung-Sang PARK and Sang-Won KANG

Title of Invention:      **METHOD OF FORMING COPPER INTERCONNECTIONS FOR  
SEMICONDUCTOR INTEGRATED CIRCUITS ON A SUBSTRATE**

Agent's File Ref.:      9907-007

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 140  
Alexandria, VA 22313-1450

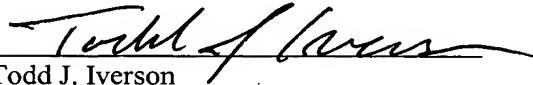
**Transmittal Letter**

Enclosed for filing regarding the above-referenced International Application are the following:

- (X) Transmittal letter to U.S. Designated Office (DO/EO/US) concerning filing Under 35 U.S.C. 371;
  - (X) Notice Informing Applicant of the Communication of the International Application to the Designated Offices
  - (X) Combined Declaration and Power of Attorney (unsigned)
  - (X) Copy of Published Application WO 03/056612 A1
  - (X) Applicant claims small entity status (see 37 CFR 1.27)
  - ( ) Assignment with cover sheet
- Assignee Name and Address:    GENITECH CO., LTD.  
   1694-5 SHINIL-DONG, DAEDEOK-GU  
   DAEJEON-CITY, 306-230  
   REPUBLIC OF KOREA
- (X) PTO Form 2038 authorizing credit card payment of \$605.00.
  - (X) Any deficiency or overpayment should be charged or credited to deposit account number 13-1703. A duplicate copy of this sheet is enclosed.

Respectfully submitted,  
MARGER JOHNSON & McCOLLOM, P.C.

MARGER JOHNSON & McCOLLOM, P.C.  
1030 SW Morrison Street  
Portland, OR 97205  
(503) 222-3613  
**Customer No. 20575**

  
Todd J. Iverson  
Reg. No. 53,057